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[Order This Patent](#)[Family Member\(s\)](#)**JP1249049A** **19891004** [FullText](#)**Title:** (ENG) ARTIFICIAL KNEE JOINT**Abstract:** (ENG)

PURPOSE: To obtain an excellent hemi-artificial knee joint by coating a metal made base structure of large mechanical strength respectively in its side, coming into contact with a bone, with a vital activator material layer and the sliding side with a wear resisting material layer.

CONSTITUTION: A base structure 11 of a joint member 1 is made by metal of Co-Cr alloy, titanium alloy, etc., forming a curved shape easily suited for a thighbone Db in its bone end part shape, and this base structure 11 coats its surface in a side, adapted to the thighbone Db, with a vital activator material layer 11a and the surface in a side, sliding as a joint, with a wear resistance material layer 11b. As a material forming the vital activator material layer 11a coating for firmly connecting the joint member 1 to the bone, hydroxyapatite, vital activator glass and β -TCP(tricalciumphosphate) or these combination may be used. While for the wear resistance material layer 11a coating the surface in the side sliding with a joint member 2 mounted to the shinbone, titanium nitride, titanium carbide, titanium carbide nitride, alumina, etc., are applied.

Application Number: JP 7860588 A**Application (Filing) Date:** 19880330**Priority Data:** JP 7860588 19880330 A X;**Inventor(s):** NODA IWA O**Assignee/Applicant/Grantee:** KYOCERA CORP**Original IPC (1-7):** A61F00238**Patents Citing This One (1):**

→ WO9523567A1 19950908 BEN NISSAN BESIM AU; HUCKSTEP RONALD L AU; LUTTON PHILLIP AU; POLLACK ALLAN AU; ETHERINGTON GREG AU; SWAIN MICHAEL AU; PAYTEN WARWICK M AU
MODULAR CERAMIC KNEE PROSTHESIS

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